HORVATH, Istvan

Reorganization of forest management and exploitation in Hungary. Erdo 13 no.6:241-244 Je '64.

1. Deputy Department Chief, National Main Directorate of Forestry, Budapest.

HUNGARY

ROZSOS, Istvan, Dr., HORVATH, Istvan, Dr., SZUTRELY, Antal, Dr.; Jaras Hospital of Keszthely, Surgical Ward (Keszthelyi Jarasi Korhaz, Sebeszeti Osztaly).

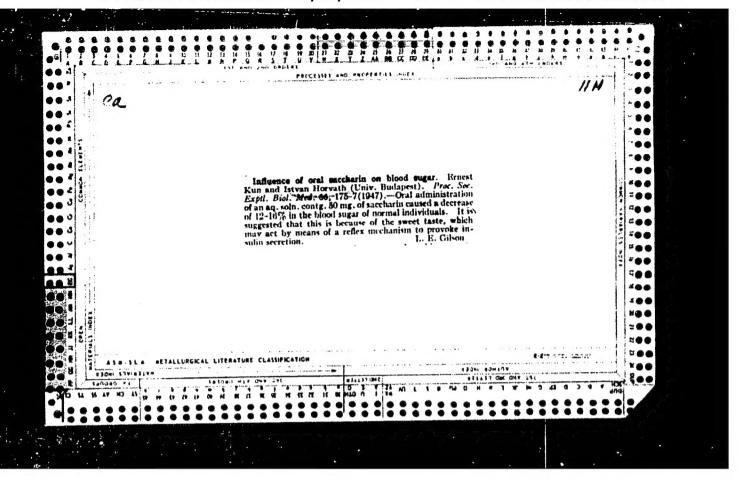
"The Problem of Surgical Asepsis-Antisepsis in a District Hospital."

Budapest, Magyar Sebeszet, Vol XVI, No 2, May 63, pages 94-97.

Abstract: [Authors' German summary] The occurrence of wound infections among the surgical cases of a district hospital over a five-year span is examined. Among aseptic operations, infection of the wound was 2.4 per cent. This good result is probably due to the circumstance that during the entire time the same four surgeons operated exclusively using atraumatic surgical techniques continually and the number of patients was relatively small. Also, strictly aseptic-antiseptic techniques were used and antibiotics were used very conservatively. 9 Hungarian, 3 Western references.

1/1

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CA

The role of phosphate in the polymerization of actin from

frog muscle 1. Horvath, J. Koch, and J. Szerb (Univ. Budapest, Hung J. Hühf Leta Phynol. 2, 134-40 (1949) (in English). Actin prepal by a modified Straub method (C.4, 41, 1988) and its polymerization under various conditions were examd. The change of viscosity in the actin soln, was detd, by an Ostwald viscometer. The polymerization which takes place at 0° in the presence of a salt mixt. (0.1 M KCl and 0.011 M MgCls) was completely prevented when a 0.5% NHz molyhdate (1) soln, was added to solns, confg. 0.05-0.06 mg/ml. actin. Smaller antis, of NHz molyhdate caused partial inhibition. When the temp was raised to 14°, I had a contrary effect and promoted

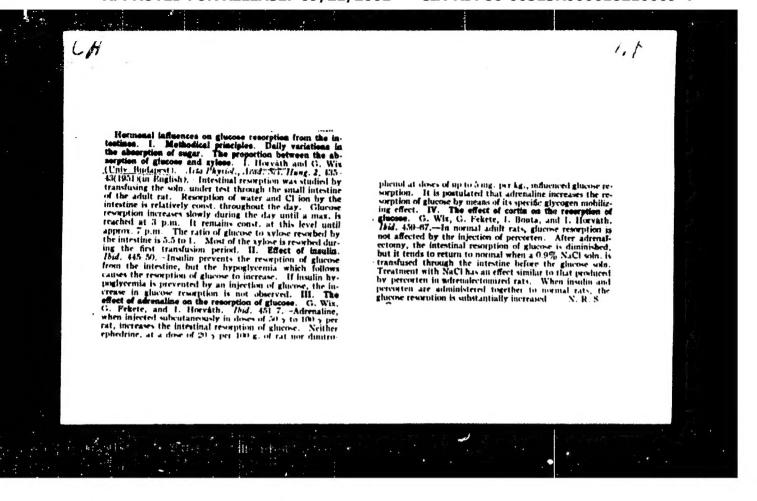
posymerization of actin, even in the absence of saits. Polymerization in the latter case was so rapid that it could not be followed by the viscometer. The rate of polymerization depends on the amt. of I used. Higher cucies, of I had a pptg, effect on proteins. Other pptg, and itenaturing agents also increased the viscosity of actin solas. To ascertain whether the effect of I is actually a pptn denaturation or real polymerization, the viscosity of actin polymerization or real polymerization, the viscosity of actin polymerizing by a salt mixt. I, and E10H at different pressures was measured. The correlations were quite identical for polymerizing by a salt mixt, or by I. For actin extd. from frog muscle polymerization at 0° occurred in the presence of 0.1 M KCl only after adding 0.005 M MgCl₁. At 14° the polymerization accurred without the addin, of the Mg salt. The polymerization in the presence of 0.1 M KCl at 0° the ious tested induced polymerization at a concer of 0.0802 M and showed activating power in the following sequence: Mn, Co, Mg, Fe, and Ni. The results are summarized by stating that reducing groups seem to play no role in the polymerization of actin. The polymerization is caused by a reaction in which the phosphate group has a central role.

HORVATTH, I. (5496)

A Budapesti Tud. Egyetem, II. Sz. Belklinikajanak Kozlemen. A kalium- es a calcium-anyagesere valtozasa penicillinkezeles kapesah Alteration of the potassium and calcium metabolism under influence of penicillin Orvosi Hetilap 1949, 90/4 (123-125) Tables 2 In penicillin treatment the serum calcium remained unchanged; however, the serum potassium increased to such a degree that the K/Ca quotient, normally varying between 1.85 and 2.2, rose to a maximum of 2.8. This is due either to an allergy developed during treatment or to a primary effect of penicillin.

Fekete - Budapest

So: Excerpta Medica, Vol. II, no. 10, Sect. II, Oct. 1949



HORVATH, I.

Hungarian Technical Abst. Vol. 6 No. 1 1954 18. Evericin, a new analyticist - Learnin, (cy. 6) antibiotishum - M. Bullahrky and I. Howath, (film-garian Journal of Chemistry - Marion Kalifier French - Vol. 59, 1953. No. 1, pp. 31-31)

An as yet unidentified strain of Actinomytes was found to produce an antibiotic substance, corriete. The bacterial spectrum of evericin resembles that of streptomycin. The active material was isolated from the fermentation broth by a column of darloxylic ion exchange resin from which it could be cluted with dilute hydrochloric acid. The crude hydrochloride was purified by chromatography on an activated carbon-diatomacous earth column. Further purification was achieved by crystallizing the helianthate from dilute methanol. Evericin is in part a polypeptide. Four basic amino acids coilid be detected by the paper chromatography of the acid hydrolysate. All differed from the common basic amino acids. A guandine group is attached to the non-peptide part of the molecule.

HORVATH, I, MAGYAR, K.; GADO, I.; SZANTO, J.; VADKERTY, T.

The influence of iron upon oxytetracycline production by Streptomyces rimosus. Acta microb. hung. 5 no.3:253-260 1958.

1. Research Institute of the Pharmaceutical Industry, Budapest. (IRON, eff.

on oxytetracycline prod. by Streptomyces rimosus) (OXYTETRACYCLINE, metab.

Streptomyces rimosus, eff. of iron on prod.)

(STREPTOMYCES, eff. of drugs on

iron on oxytetracycline prod. in Streptomyces rimosus)

* Salvan. JK

MOR VAIH. atta. viere nungary H-17 Deleven CATEGOR" ABS. JOUR. : RZKhim., No. 1959, No. 87573 : Horvath, I.; Gado, I.; Szentirmai, A. ROHTUA : Hungarian Academy of Sciences INST. : Production of Oxytetracycline in Synthetic TITLE Medium. : Acta microbiol. Acad. scient. hung., 1958. ORIG. PUB. 5, No 4, 317-327 : A nutrient medium of simple composition has ABSTRACT been developed for experimental, fermentative production of oxytetracycline. It was found that with a constant ratio of glycine and carbohydrate, the yield depends upon concentration of phosphate, which accelerates consumption of the ingredients of the nutrient medium. From authors' summary. CARD: 210

HORVATH, Istvan

Remark on the role of industrial economics. Erdo 14 no.2:58-59 F . 165.

1. Deputy Department Head, National Main Directorate of Forestry, Budapest.

HORVATH, Istvan

Combined data of forestry production plans. Erdo 14 no.3:97-108 Mr 165.

1. Deputy Chief, Department of Forestry Administration of the Main Directorate of Forestry, Budapest.

HORVATH, I .; SZENTIRMAL, A.; BAJUSZ, S.; PARRAGH, Eve

Production of inductive amylase by penicillium chrysogenum. Acta microb..hung. 7 no.1:19-29 '60.

1. Research Institute of the Pharmaceutical Industry, Budapest.
(AMYLASES chem.)
(PENICILLIUM metab.)

GADO, I.; SZENTIRMAI, A.; STECZEK, Katalin; HONVATH, I.

Metabolic studies with streptomyces rimosus. Acta microbiol. acad. sci. hung. 8 no.3:291-302 161.

1. Research Institute of the Pharmacoutical Industry, Budapest. (STREPTOMYCES metab) (OXYTETRACYCLINE metab)

GADO, I. HORVATH, I.

Oxytetracycline production in different amino acid containing media. Acta microb. 9 no.1:1-9 162.

1. Department of Microbiology (Head: I. Horvath), Research Instituto for the Pharmaceutical Industry, Budapest.

(OXYTETRACYCLINE metabolism) (AMINO ACIDS pharmacology)

Valine and isoleucine metabolism of Streptomyces rimosus. Acta microb.
9 no.1:11-22 162.

1. Department of Microbiology (Head: I. Horvath), Research Institute
or the Pharmaceutical Industry, Budapest.
(VALINE metabolism) (LEUCINE metabolism) (STREPTOMYCES metabolism)

SZENTIRMAI, A.; HORVATH, I.

L-serine deaminase from Streptomyces rimosus. Acta microb. 9 no.1: 23-30 62.

1. Department of Microbiology (Head: I. Horvath), Research Institute for the Pharmaceutical Industry, Budapest.

(HYDRASES chemistry) (STREPTOMYCES chemistry)

SZENTIRMAI, A.; HORVATH, I.

L-threonine deaminage from Streptomyces rimosus. Acta microb. 9 no.1: 31-37 162.

1. Department of Microbiology (Head: I. Horvath), Research Institute for the Pharmaceutical Industry, Budapest.

(HYDRASES chemistry) (STREPTOMYCES chemistry)

HORVATH, I.; SZENTIRMAI, A.

Glucose catabolism of Streptomyces rimosus. Acta microbiol. Hung.
9 no.2:105-116 '62.

1. Department of Microbiology (Head: I. Horvath), Research Institute
for Pharmaceutical Industry, Budapest.
(GLUCOSE) (STREPTOMYCES) (GLUCOSEPHOSPHATE DEHYDROGENASE)
(ISOMERASES) (HEXOKINASE) (ALDOLASE) (PHOSPHOTRANSFERASES)
(DEHYDROGENASES) (HYDRO-LYASES)

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HORVATH, I.; VARGA, J.M.

Trichothecinase. Acta microbiol. Hung. 9 no.2:117-121 '62.

1. Department of Microbiology (Head: I. Horvath), Research Institute for Pharmaceutical Industry, Budapest.
(FUNGICIDES) (ANTIBIOTICS) (ESTERASES)

BUNJARI

MAGYAR, Karoly, STVERTICEK!, Judit, and HORVATH, Estuan, of the Research Institute for the Pharmacoutical Industry (Director: Vhilidh, C.) Budapest [Original version not given].

"The Synongism of Viridogrisein and Griseswiridin"

bunspost, Acta Microbhologica, Vol. 4. No 3. pp 247-250, 1962>

Absenced English erticle, authors! English summers]: The symongism between vividogrissin and grissoviridin has been studied. A new paper comparts graphic method has been sound out to study whether in the brother the crude compentation of an antibiotic complex compentate symongist were contained. [14 references, all destern].

,2/1

HORVATH, Imre

Hydraulia model tests on air-blown aeration basin. Hidrologiai kozlony 45 no.3:134-142 Mr '65.

1. Scientific Research Institute of Water Resources Development, Budapest.

1/1

HUNGARY

GADO, Istvan, SAVTCHENKO, Galina, HORVATH, Istvan; Research Institute for Pharmaceutical Chemistry, Department of Microbiology (head: HORVATH, I.) (Gyogyszeripari Kutato Intezet, Mikrobiologiai Osztaly), Eudapest.

"Agar-Diffusion Method for the Screening of Anticancer Substances by Phage Induction."

Budapest, Acta Microbiologica Academiae Scientiarum Hungaricae, Vol XII. No 4, 1965/66, pages 363-365.

Abstract: [English article, authors' English summary modified] A simple, semi-quantitative agar diffusion method was worked out for the screening of anticancer substances by phage induction which is suitable for mass examinations. The method is based on the following. A solid medium is infected with an appropriate mixture of the lysogenic and indicator strains: under the influence of active compounds, the number of plaques is significantly increased in the surroundings of the wells made in the agar plate. 1 Hungarian, 5 Western references. [Manuscript received 23 Aug 65.]

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C NR: AP6026660 THOR: Horvath', Janos (Graduate	h)/EWP(v)/EWP(t)/EWP(1)/ETT IJP(c) JD SOURCE CODE! NU/0014/65/098/00	29
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G: Directorart for Ferrous Met	tallurgy /directed by Janos Horvath/, Kini	stry for
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tosag)		•
TIE: Current problems in the p	production and development of iron and ste	el
nufacture (
RCE: Kohaszati lapok, v. 98,	no. 8, 1965, 337-341	
PIC TAGS: iron, steel, metallu	unda sculanavas	
to thos: Ifon, seet, metaliti	m. Arc. coure. euce	
STRACT: This article is the te	ext of the inaugural lecture delivered by	the author
the Conference on Crude Iron a	and Steel Manufacture, held 17 May 1965 in pment, and expansion plans of the Hungaria	Belaton-
tallurgical industry were outli	ined with special emphasis on improvements	and new
cilities. [JPRS: 32,491]		
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L 29694-66 ETC(f) JW SOURCE CODE: HU/0034/65/013/001/0019/0046

AUTHOR: Horvath, Janos

ORG: Institute for Theoretical Physics, Jozsef Attila Scientific University, Szeged (Jozsef Attila Tudomanyegyetem Elmoleti Fizikai Intezete)

53 B

TITLE: Problem of entropy increase

SOURCE: Magyar fizikai folyoirat, v. 13, no. 1, 1965, 19-46

TOPIC TAGS: entropy, thermodynamic equilibrium

ABSTRACT: The density operators characterizing the fine-particle and the coarse-particle statistical many-particle systems, respectively, indicate that the entropy of the former does not increase while that to the latter increases until a maximum corresponding to the thermodynamic equilibrium is attained. It was shown that the argument of Fain, V. M. (UFN SSSR, vi 79, 1963, p 641) against this principle are erroneous. This conclusion was based on an evaluation of relevant literature references and the law of density-operator evolution. Orig. art. has: 155 formulas.

SUB CODE: 20 / SUBM DATE: 18Apr64 / ORIG REF: 005 / OTH REF: 045

Card 1/1 CC

L 31782-60

ACC NR: AT6025144

SOURCE CODE: HU/2501/65/051/01-/0193/0210

AUT.IOR: Horvath, J .-- Khorvat, Y.

99 D+ [

ORG: 13 ming Research Institute, Budapast

TITLE: Formation of axially symmetrical loading in the area surrounding mine entrances with circular cross section

SOURCE: Academia scientiarum hungaricae. Acta technica, v. 51, no.1-2,1965,193-210

TOPIC TAGS: mining engineering, elasticity, plasticity, petrology

ABSTRACT: The problem was discussed theoretically and on the basis of actual investigations. The influence of the mechanical characteristics of the rocks forming the entrance was investigated and the conditions under which they behave elastically and plastically were determined. The calculations, described in detail and illustrated by numerical examples, enable the calculation of the design for optimum load-bearing constructions. Orig. art. has: 10 figures, 33 formulas, 6 tables.

[JPRS: 33,544]

SUB CODE: 08, 20 / SUBM DATE: 05Nov63 / ORIG REF: 002 / SOV REF: 001 / OTH REF: 004

Card 1/1 80

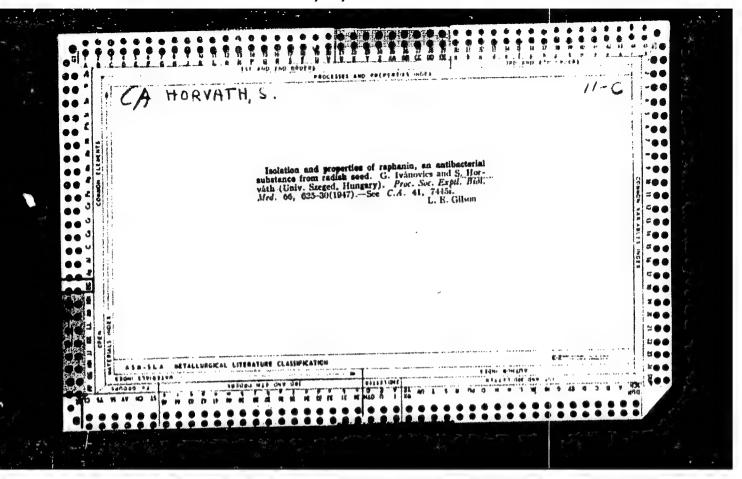
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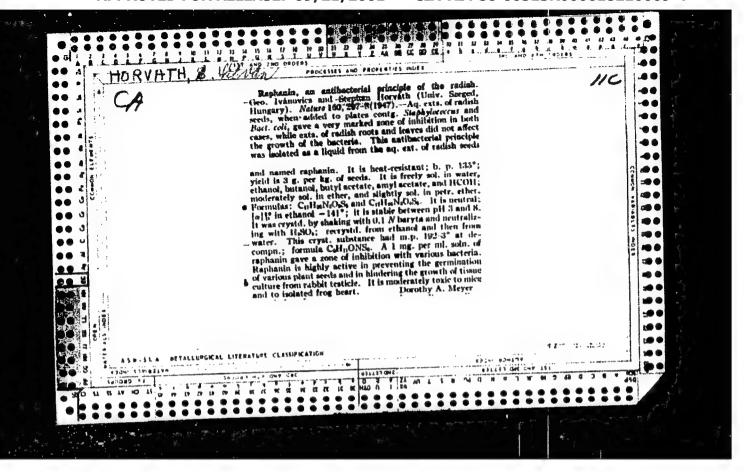
CIA-RDP86-00513R000618210009-4"

ACC NR: AP6020845 SOURCE CODE: HU/0036/65/072/003/0191/0204 AUTHOR: Moszaros, Bola (Candidate of biological sciences; Adjunctus); Horvath, J. (Adjunctus) ORG: /Keszaros Kossuth Lajos University, Debrecen (Kossuth Lajos Tudomanyegyetem); [Horvath] Ectvos Lorand University (Ectvos Lorand Tudomanyegyetem) 36 TITLE: Some aspects of current trends in biology 6 SOURCE: Magyar tudomany, v. 72, no. 3, 1965, 191-204 TOPIC TAGS: protein, biologic metabolism, genetics, biophysics, biochemistry, nucloic acid ADSTRACT: The current confusion in biology, attributed partly to the previous dogmatism of Marxist-Leninist philosophy, is discussed. The basic principles of the Darwin-Mitchurin and the "molecular genetics" approach are listed. In chapter two, an argument is presented to show that the results of molecular genetics serve as proof of the correctness of the D-M approach to genetics that the principal material basis of inheritance is protein metabolism. The controversy in the field of genetics is one of ideology as well. It is part of the controversy between Darwinism and anti-Darwinism and it will continue until a final victory of the biological trend based on materialism is achieved. A discussion of the role of nucleic acids in chapter three is Card 1/2

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31826-66 SOURCE CODE: HU/0034/65/013/002/0195/0206 ACC NR: AP6021176 67 AUTHOR: Horvath, Janos. ORG: Institute for Theoretical Physics, Jozsef Attila Scientific University, Seeged (Jozsef Attila Tudomanyegyetem Elmeleti Fizikai Interete) TITIE: Notes on the theory for the absorption and emission spectra of fluorescent molecules SOURCE: Magyar fizikai folyoirat, v. 13, no. 2, 1965, 195-206 TOPIC TAGS: absorption spectrum, emission spectrum, fluorescence, radiation, specific heat, solvent action ABSTRACT: It was shown that the equations characterizing the active absorption spectrum and the emission spectrum of fluorescent molecules can be derived by employing the method utilized by Blohincev, D., (JEPT USSR, v. 4, 1939, 459) in formulating the theoretical basis of the Ljovsin mirror-symmetry law, by taking into account certain. time-correlation and fluctuation phenomena occurring during the radiation processes. The results of these calculations also yielded the generalized Stepanov radiation law. The vibrational specific heat, and the relaxation time for the thermal interactions between the molecules in the solvent were calculated. The author thanks Istvan Ketskemety for calling attention to the problems and Lasslo Szalay, Jossef Dombi and Laszlo Kozma for valuable discussion as well as for publication of experimental results. Orig. art. has: 34 formulas, and 1 table. [JPRS] SUB CODE: 20 / SUBM DATE: 06Sep64 / ORIG REF: 005 / OTH REF: 004 / SOV REF:003





HOFVATH, I. 1951

(Path. Inst. U. of Szeged)

" A Physical Method of Demonstration of Virus Proliferation."

Acta lhusiol. (Budapest), 1951 2/1 suppl. (57-58) No abst. in Exc. Ned.

HORVATH, I.; SZOLLOSY, E.; IVANOVICS, G.

Distribution of the receptor substance of the influenza and related viruses in the tissue-elements of different animal species. I. The virus adsorbing capacity and agglutinability of the erythrocytes of various vertebrates. Acta physiol.hung. 2 no.1:77-86 1951. (CIML 20:9)

1. Of the Institute of Pathology and Microbiology of Szeged University.

KOCH, A.; HORVATH, S.; IVANOVICS, G.

An attempt to detect the virus infection of the chick embryo by registrating the refractive power of the allantoic fluid. Acta physiol. hung. 2 no.3-4:525-531 1951. (CIML 22:1)

1. Of the Institute of Pathology and Microbiology of Smeged University.

SZOLLOSY, E.; INVANOVICS, G.; HORVATH, S.

Distribution of the receptor substance of influenza and releted viruses in tissue elements of different animal species. II. The virus absorbing capacity of the respiratory tract of various vertebrates. Acta physiol. hung. 3 no.22431-440 1952. (CLML 24:3)

1. Of the Institute of Pathology and of the Institute of Microbiology. Szeged University.

IVAROVICS, G.; HORVATH, S.

The structure of the capsule of B, megatherium. Acta physiol. hung.
4 no.1-2:175-186 1955, (CIML 25:1)

1. Of the Institute of Microbiology of Saeged University.

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Chemical Abstracts
Chemical Abstracts
Vol. 43 No. 5
Mar. 10, 1954
Biological Chemistry

Chemical structure of the caperds of Bacillina antitracts and Bacillina megatherism. Act. 1847. Horvetth (AMCI. Univ., Sergell). Acts. Physiol. Acts. 54; Henry 4. 401-81085(in English). The—COOH, groups of the D-glutamic acid polypeptide which forms the capeule of J. antitracts and gradehoiss are not free if one judges by the staining reactions of the capeular material.

M. O. Horowits

HORVATH, S.

A new sensitive method of the rolling drum method for influenza Virus titration. Acta microb. hung. 1 no.4:481-494 1954.

1. Institute of Microbiology, University Medical School Sneged.
(INFLUENZA VIRUSES
titration, rolling drum method)

HORVATH, S.; ALFOLDI, L.

A new sensitive method of phage titration on plastic trays. Acta microb. hung. 1 no.4:495-510 1954.

1. Institute of Microbiology, University Medical School, Szeged.
(BACTERIOPHAGE
titration on plastic trays)

HORVATH, I.

The protozoa fauna virus infected by and from of the paprika virus of Szeged.i In German. p. 193. (ACTA BIOLOGICA. Vol. 2, no. 1/h, Pec. 1956, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957. Uncl.

HORVATH, S.; BALAZS, V.

Influenza in Szeged, 1953-54. In English. p. 241. ACTA MICROBIOLOGICA. (Magyar Tudomanyos Akademia) Budapest. Vol. 3, no. 3, 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, no. 12, December 1954.

HORVATH, S.

Study on the cyclic multiplication of influenza and ND viruses in tissue cultures. Acta microb. hung. 5 no.2:123-131 1958.

1. Institute of Microbiology, University Medical School, Szeged.

Present address: First Department of Medicine, University Medical School, Szeged.

(INFLUENZA VIRUSES, culture cyclic multiplication in tissue cultures) (NEWCASTLE DISEASE, virus cyclic multiplication in tissue cultures)

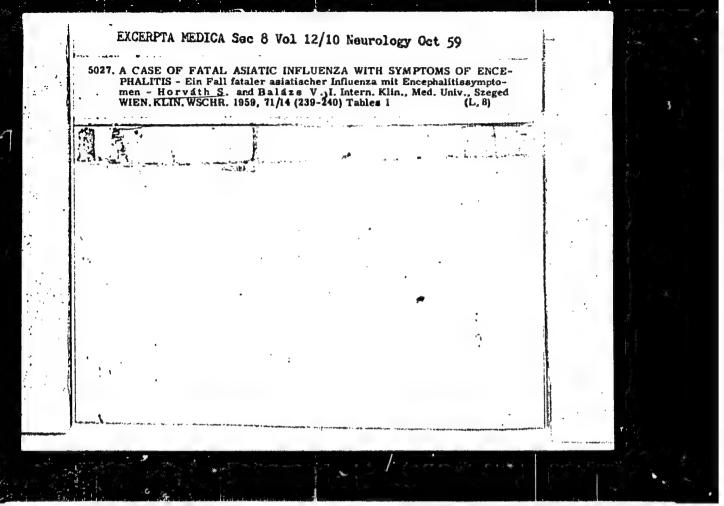
HLEVATH, S.; BALAES, V.

A quantitative semimicro tissue-culture method and its use in microbiology. I. Quantitative semimecrotissue-culture method. p. 415

ACTA HICROSLOLOCICA. (Magyar Tudomanyos Akademia) Budapest, Hungary, Vol. 5, no. 4, 1958. In English

Monthly list of East European Accessions, (EEAI) LC, Vol. 9, no. 1, Jan. 1960

Uncl.



HORVATH, Istvan, Dr.; BAIAZS, Viktor, Dr.

Fatal Asian influenza with symptoms of encephalitis. Orv. hetil. 100 no.7: 267-268 15 Feb 59.

1. A Szegedi Orvostudomanyi Egyetem I. sz. Belgyogyaszati Klinikajanak (igazgato: Hetenyi Geza dr. egyetemi tanar) közlemenye.

(INFINENZA, compl.

Asian influenza with sympt. of encephalitis, fatal case (Hun)) (ENCEPHALITIS, et iol. & pathogen. same)

Clinical and pathological data on the pavement cell cancer of the gall bladder. Orv. hetil. 97 no.16:429-431 15 Apr 56.

1. A Pecsi Orvostudomanyi Egyetem I. sz. Sebeszeti Klinikajanak (igazgato: Schwidt, Lajos dr. egyetemi tanar) es Korbonctani Intezetenek (igazgato: Romhanyi, Gyorgy dr. egyetemi tanar) kozlemenye.

(GALL BLADDER, neoplasms epidermoid carcinoma, pathol. (Hun))

(CARCINOMA, EPIMEMOID gall bladder, pathol. (Hun))

BRAUM, Pal, Dr.; HORVATH, Istvan, Dr.

Amylase and transaminase activities in the serum of healthy and sick persons. Orv. hetil. 99 no.35:1210-1214 31 Aug 58.

1. A Budapesti Orvostudomanyi Egyete, I. sz. Belklinikajanak (igazgato: Rusznyak Istvan dr. egyet tanar) kozlemenye.

(AMYIASES, in blood

determ, in healthy persons & various dis. (Hun))

(TRANSAMINASES, in blood

glutemic oxalacetic & glutamic pyruvic transaminases, determ. in healthy persons & various dis. (Hun))

BRAUN, Pal, Dr.; PAPP, Miklos, Dr.; HORVATH, Istvan, Dr.

Experimental examination of the transaminase activity of the serum and lymph. Orv. hetil. 99 no.49:1703-1704 7 Dec 58.

1. A Budapesti Orvostudomanyi Egyetem I. sz. Belklinikajanak (igazgato: Rusznyak Istvan dr. egyet tanar) kozlemenye.

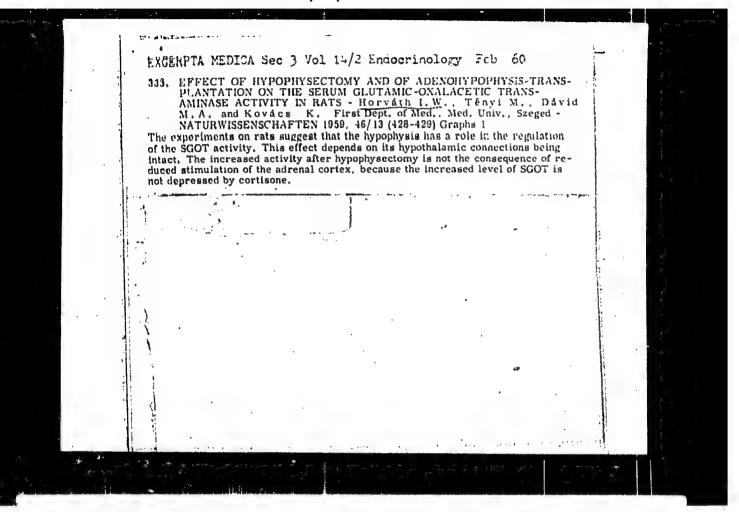
(TRANSAMINASES. determ.

glutamic - oxalacetic & glutamic - pyruvic transaminases in blood & lymph in dogs. eff. of liver lesions (Hun))

(LYMPH

glutamic - oxalacetic & glutamic - pyruvic transaminase activity in dogs, eff. of liver lesions (Hun)) (LIVER, physiol.

eff. of liver lesions on glutamic - oxalacetic & glutamic - pyruvic transaminase activities in blood & lymph in dogs (Hun))



KOVACS, Kalman; DAVID, Margit; HORVATH, Istyan

Role of the hypothalamus-adenohypophysis system in water metabolism. (Studies on water metabolism following transplantation of the adenohypophysis). Kiserletes Orvostudomany 11 no.4:382-391 August 1959.

1. Szegedi Orvostudomanyi Egyetem, I. Belgyogyaszati Klinikaja.
(PITUITARY GIAND POSTERIOR, transpl.)
(DIURESIS, physiol)

KOVACS, Kalman; DAVID, margit; HORVATH, Istvan

Effect of autotransplantation of the adenohypophysis on salt excretion. Kiserletes Orvostudomany 11 no.4:392-400 August 1959

1. Szegedi Orvostudomanyi Egyetemi. Belgyogyaszati Klinikaja.
(PITUITARY GIAND POSTERIOR, transpl)
(WATER ELECTROLYTE BAIANCE)

KOVACS, Kalman; HORVATH, Istvan; DAVID, Margit

Effect of adrenalin and acetylcholine on water balance following hypophysectomy and transplantation. Kiserletes Orvostudomeny 11 no.4:401-407 August 1959

1. Szegedi Orvostudomanyi Egyetem I. sz. Belgyogyaszati Klinikaja.

(EPHNEPHRINE, pharmacol.)

(ACETYLCHOLINE, pharmacol.)

(PITUITARI GIAND POSTERIOR transpl.)

(HYPOPHYSECTOMY eff)

(DIURESIS physiol)

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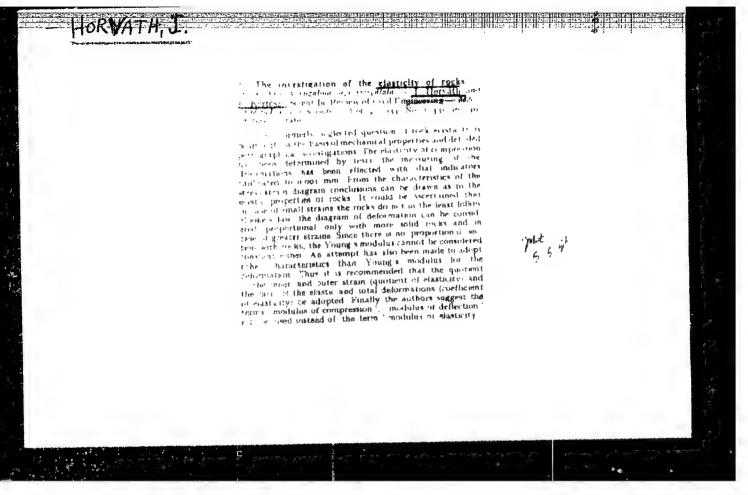
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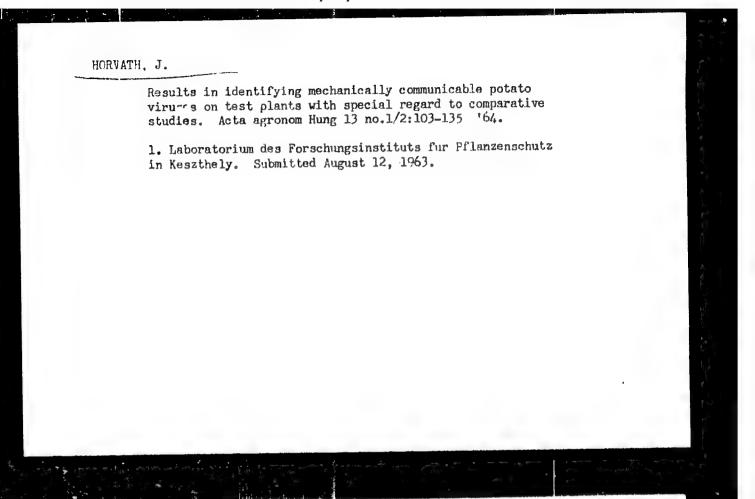
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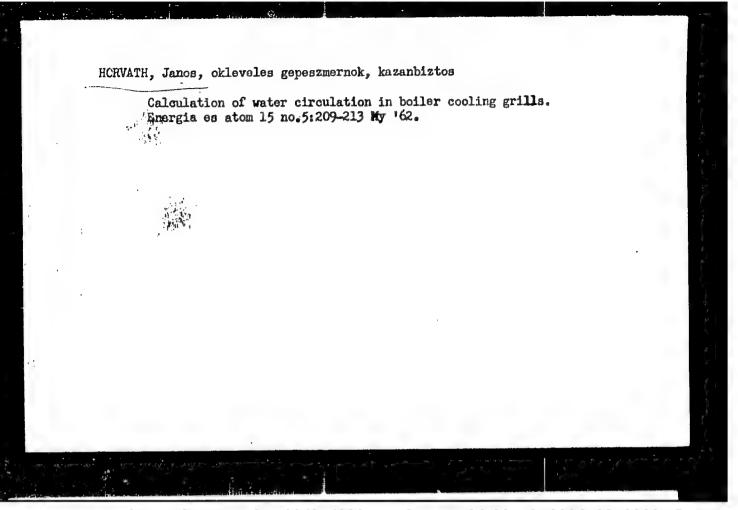
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J-4100

AUTHOR:

Horvath, Janos, Doctor

TITLE:

Equation of State of Real Gases ?

PERIODICAL: Fizikai Szemle, 1960, Vol. 10, No. 7, pp. 195 - 202

TEXT: The discovery of the different behavior of real gases as compared to ideal gases induced van der Waals to attempt the derivation of their equation of state. Clausius (1880) made the first attempt, followed by several scientists, towards a generalization; Kamerlingh Onnes(1901) found the most general form. The present paper deals with the statistical foundation of the van der Waals equation and the author writes down the Hamiltonian of the monatomic homogeneous gases, which describes a system of real gases. The approximate method developed by J. E. and M. G. Mayer for calculating the configuration integral is mentioned. H. D. Ursell worked out the relevant exact computations in 1927. In calculating the configuration sum, the group integrals b₁, b₂ etc (cluster integrals) are written down.

As regards the more complicated calculations, the results achieved by

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Equation of State of Real Gases

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S. H. Harrison (1938) and F. Kurth (1951) are pointed out; subsequently, the final result - the equation of state - is written down:

PV = NkT $\sum_{m} a_{n} \left(\frac{N}{V}\right)^{n}$, where N denotes the number of molecules, and

 $a_0 = 1$, $a_1 = -b_2$, $a_2 = 2b_3 + 4b_2^2$. The potential of the force occurring between the molecules is defined by the Lennard-Jones potential whose parameter K (depth of the potential well) and σ (diameter of the molecules and atoms, respectively) are calculated and tabulated for A, Ne, He, N₂, H₂ (Table 1). On the basis of the parameters it is possible to determine the third virial coefficient C of the equation of state. The calculated and the measured curves of C(T) are in rather good agreement. Such an approximation is permissible for a number of problems. This question has cropped up recently, since a more exact approximation is necessary for the study of high pressures (explosions). There are 6 figures and 1 table.

ASSOCIATION: Szegedi Tudományegyetem Elméleti Fizikai Intézete (Szeged University of Sciences, Institute of Theoretical Physics)

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HORVATH, Janos

Remarks about and correction to the paper entitled "Degrees of internal freedom of physical spaces and the geometrical interpretation of the isobar spin space." Magy fiz folyoir 10 no.5:365-385 '62.

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